

## AMENDMENTS TO THE CLAIMS

Kindly cancel claims 1-4 and 6-9 without prejudice, and amend claims 5, 10 and 11 as follows:

Claims 1-4 (canceled)

5. (currently amended) ~~The interface system of claim 4, wherein the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.~~ An interface system for monitoring passive electrodes and driving active electrodes on an endocardial mapping catheter, the interface system comprising:
- a) a passive electrode interface adapted to monitor the passive electrodes;
  - b) an active electrode interface adapted to drive the active electrodes;
  - c) a computer interface adapted to allow computer monitoring of the passive electrodes and driving of the active electrodes;
  - d) a surface electrode interface adapted for electrical connection to surface electrodes;
  - e) a signal generator controlled by the computer interface, the signal generator electrically connected to the active electrode interface said signal generator electrically connected to the surface electrode interface;
  - f) a therapy catheter interface adapted to electrically connect to electrodes on a therapy catheter, the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.

Claims 6-9 (canceled)

10. (currently amended) The interface system of claim 59, wherein the therapy catheter interface further comprises a therapy electrode interface for delivering ablation energy to the therapy catheter.
11. (currently amended) The interface system of claim 56, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section.